



ATTACH Paper #6
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SHEET 1 OF 3

| FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT | | | | ATTORNEY DOCKET NO.: CEL-002(7846/5) APPLICANTS: Gardner et al. SERIAL NO.: 09/872,868 FILING DATE: June 1, 2001 GROUP: 1653 ¹⁶³⁶ | | | | | |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-----------|----------------------------|---------------|--------------------|
| U.S. PATENT DOCUMENTS | | | | | | | | | |
| EXAM. INIT. | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB CLASS | FILING DATE IF APPROPRIATE | | |
| AA2 | A1 | 4,833,080 | | Brent et al. | X | X | | | |
| | A2 | 5,416,008 | | Bailey et al. | | | | | |
| | A3 | 5,589,392 | | Short | | | | | |
| | A4 | 5,972,650 | | Yao | | | | | |
| AA2 | A5 | 5,989,910A | | Mermod et al. | | | | | |
| FOREIGN PATENT DOCUMENTS | | | | | | | | | |
| EXAM. INIT. | | DOCUMENT NUMBER | DATE | COUNTRY CODE | CLASS | SUB CLASS | FILING DATE | ABSTRACT ONLY | ENGLISH LANG (Y/N) |
| AA2 | B1 | 0 136 907 A2 | 10/01/84 | | X | X | | | |
| AA2 | B2 | WO 00/32748 | 6/8/00 | | | | | | |
| AA2 | B3 | WO 00/65080 | 11/2/00 | | | | | | |
| OTHER ART, JOURNAL ARTICLES, ETC. | | | | | | | | | |
| EXAM. INIT. | OTHER DOCUMENTS: (Including Author, Title, Date, Relevant Pages, Place of Publication) | | | | | | | | |
| AA2 | C1 | Amann et al., Vectors Bearing a Hybrid <i>trp-lac</i> Promoter Useful for Regulated Expression of Cloned Genes in <i>Escherichia coli</i> . (1983). <i>Gene</i> 25: 167-178. | | | | | | | |
| | C2 | Amann et al., 'ATG Vectors' for Regulated High-Level Expression of Cloned Genes in <i>Escherichia coli</i> . (1985). <i>Gene</i> 40: 183-190. | | | | | | | |
| | C3 | Backman et al., Maximizing Gene Expression on a Plasmid Using Recombination in Vitro. (1978). <i>Cell</i> 13: 65-71. | | | | | | | |
| | C4 | Bailey et al., Molecular Genetics and Control Systems: Biochemical Engineering Fundamentals. Second Edition. Chapter 6: 307-372. | | | | | | | |
| | C5 | Chen et al., Molecular Design of Expression Systems: Comparison of Different Repressor Control Configurations Using Molecular Mechanism Models. (1991). <i>Biotechnology and Bioengineering</i> 38: 679-687. | | | | | | | |
| AA2 | C6 | Chen et al., Construction and characterization of a novel cross-regulation system for regulating cloned gene expression in <i>Escherichia coli</i> . (1993) <i>Gene</i> 130: 15-22 | | | | | | | |

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| AAZ | C7 | Chen et al., Process Characterization of a novel cross-regulation system for cloned protein production in <i>Escherichia coli</i> . (1995). <i>Biotechno. Prog.</i> 11(4): 397-402. |
| | C8 | Cohen, Total Control: Now you can keep bugs in line with genetic clocks and switches. (2000). <i>New Scientist</i> . |
| | C9 | Crowl et al., Versatile expression vectors for high-level synthesis of cloned gene products in <i>Escherichia Coli</i> . (1985) <i>Gene</i> 38: 31-38. |
| | C10 | Dedhia et al., Design of expression systems for metabolic engineering: coordinated synthesis and degradation of glycogen. (1997). <i>Biotechnol & Bioeng.</i> 55 (2): 420-426. |
| | C11 | Gardner et al., Construction of a genetic toggle switch in <i>Escherichia coli</i> . (2000). <i>Nature</i> . 403: 339-342. |
| | C12 | Gardner et al., Neutralizing noise in gene networks. (2000). <i>Nature</i> 405: 520-521. |
| | C13 | Gardner, Design and Construction of Synthetic Gene Regulatory Networks. (2000). <i>Ph.D. Dissertation, Boston University</i> . |
| | C14 | Goeddel et al., Expression in <i>Escherichia coli</i> of Chemically Synthesized Genes for Human Insulin. (1979). <i>Proc. Natl. Acad. Sci. USA</i> , 76 (1): 106-110. |
| | C15 | Gorman et al., Regulation of the Yeast Metallothionein Gene. (1986). <i>Gene</i> , 48: 13-22. |
| | C16 | Hadcock et al., Cross-regulation between G-protein-mediated Pathways, Stimulation of Adenylyl Cyclase Increases Expression of the Inhibitory G-protein G_{in2} . (1990). <i>The Journal of Biological Chemistry</i> 265 (25): 14784-14790. |
| | C17 | Hadcock et al., Cross-regulation between G-protein-mediated Pathways, Activation of the Inhibitory Pathway of Adenylylcyclase Increases the Expression of β_2 Adrenergic Receptors. (1991). <i>The Journal of Biological Chemistry</i> 266 (18): 11915-11922. |
| | C18 | Hasty et al., Noise-based switches and amplifiers for gene expression. (2000). <i>Proc. Natl. Acad. Sci. USA</i> . 97(5): 2075-80. |
| | C19 | Kaufman, High Level Production of Proteins in Mammalian Cells. (1987). <i>Genetic Engineering: Principles and Methods</i> 9: 155-198. |
| | C20 | Kramer et al., Isolation of Yeast Genes with mRNA levels controlled by phosphate concentration. (1980). <i>Proc. Natl. Acad. Sci. USA</i> . Vol. 77 (11): 6541-6545. |
| | C21 | Lee et al., Genetically Structured Models for <i>lac</i> Promoter-Operator Function in the Chromosome and in Multicopy Plasmids: <i>lac</i> Promoter Function. (1984) <i>Biotechnology and Bioengineering</i> XXVI: 1383-1389. |
| | C22 | Lee et al., Genetically Structured Models for <i>lac</i> Promoter-Operator Function in the <i>Escherichia coli</i> Chromosome and in Multicopy Plasmids: <i>lac</i> Operator Function. (1984). <i>Biotechnology and Bioengineering</i> XXVI: 1372-1382. |
| | C23 | Monod et al., General Conclusions: Teleonomic Mechanisms in Cellular Metabolism, Growth, and Differentiation. (1961). <i>Cold Spring Harbor Symposia on Quantitative Biology</i> XXVI: 389-401 |
| | C24 | Moser et al., Characterization and Complementation of pMB1 Copy Number Mutant: Effect of RNA 1 Gene Dosage on Plasmid Copy Number and Incompatibility. (1983). <i>Journal of Bacteriology</i> 154 (2): 809-818. |
| | C25 | Oshima, Regulatory Circuits for Gene Expression: The Metabolism of Galactose and Phosphate. (1982). <i>The Molecular Biology of the Yeast Saccharomyces: Metabolism and Gene Expression</i> : 159-180. |
| AAZ | C26 | PCT International Search Report from PCT/US99/28592. |

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| AB2 | C27 | Platt, Regulation of Gene Expression in the Tryptophan Operon of <i>Escherichia coli</i> . (1975). <i>The Operon</i> : 263-302. |
| | C28 | Ptashne, Repressor and Its Action. (1971). <i>The Bacteriophage Lambda</i> 11: 221-237. |
| | C29 | Seo et al., Effects of Recombinant Plasmid Content on Growth Properties and Cloned Gene Product Formation in <i>Escherichia coli</i> . (1985). <i>Biotechnology and Bioengineering</i> XXVII: 1668-1674. |
| | C30 | Shockett et al., Diverse strategies for tetracycline-regulated inducible gene expression. (1996). <i>Proc. Natl. Acad. Sci. USA</i> . 93: 5173-5176. |
| | C31 | Sledziewski et al., Construction of Temperature-Regulated Yeast Promoters Using the MATa2 Repression System. (1988). <i>Biotechnology</i> 6: 411-416. |
| AB2 | C32 | Windass et al., The construction of a synthetic <i>Escherichia coli trp</i> promoter and its use in the expression of a synthetic interferon gene. (1982). <i>Nucleic Acids Research</i> . 10 (21): 6639-6657. |
| EXAMINER <i>Ronald G. Huff</i> | | DATE CONSIDERED 4-6-03 |

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